

# SEQUENCE LISTING

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<120> O-Linked Glycosylation of Peptides

<130> 40853-01-5138-US01

<140> 10/585,385  
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<150> 60/570,891  
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<150> 60/555,813  
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<150> 60/546,631  
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Asp	Ser	Ile	Leu
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<213> Homo sapiens

<400> 133

Cys Val Ile Gln Glu Val Gly Met Thr Glu Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 134

<211> 20

<212> PRT

<213> Homo sapiens

<400> 134

Cys Val Ile Gln Glu Val Gly Val Thr Glu Thr Pro Leu Met Asn Glu

1 5 10 15

Asp Ser Ile Leu  
20

<210> 135  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 135

Cys Val Ile Gln Gly Val Gly Met Thr Glu Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 136  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 136

Cys Val Ile Gln Glu Val Gly Val Thr Glu Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 137  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 137

Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 138  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 138

His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr  
1 5 10 15

Ala Pro Pro Ala

20

<210> 139  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 139

His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr  
1 5 10 15

Ala Pro Pro Ala  
20

<210> 140  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 140

Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro  
1 5 10 15

Ala Pro Gly Ser Thr Ala Pro Pro  
20

<210> 141  
<211> 178  
<212> PRT  
<213> Homo sapiens

<400> 141

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro  
35 40 45

Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro  
50 55 60

Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser  
65 70 75 80

Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu  
85 90 95

Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu  
100 105 110

Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu  
115 120 125

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe  
130 135 140

Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His  
145 150 155 160

Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala  
165 170 175

Gln Pro

<210> 142  
<211> 177  
<212> PRT  
<213> Homo sapiens

<400> 142

Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys  
1 5 10 15

Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln  
20 25 30

Glu Lys Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu  
35 40 45

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu  
50 55 60

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln  
65 70 75 80

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu  
85 90 95

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp  
100 105 110

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly  
115 120 125

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala

130		135		140											
Ser	Ala	Phe	Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu
145					150					155					160
Gln	Ser	Phe	Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln
				165					170					175	
Pro															
<210> 143															
<211> 175															
<212> PRT															
<213> Homo sapiens															
<400> 143															
Met	Thr	Pro	Leu	Gly	Pro	Ala	Ser	Ser	Leu	Pro	Gln	Ser	Phe	Leu	Leu
1				5					10					15	
Lys	Cys	Leu	Glu	Gln	Val	Arg	Lys	Ile	Gln	Gly	Asp	Gly	Ala	Ala	Leu
			20					25					30		
Gln	Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu	Leu
		35					40					45			
Val	Leu	Leu	Gly	His	Ser	Leu	Gly	Ile	Pro	Trp	Ala	Pro	Leu	Ser	Ser
	50					55					60				
Cys	Pro	Ser	Gln	Ala	Leu	Gln	Leu	Ala	Gly	Cys	Leu	Ser	Gln	Leu	His
65					70					75					80
Ser	Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu	Gly	Ile
				85					90					95	
Ser	Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp	Thr	Leu	Gln	Leu	Asp	Val	Ala
			100					105					110		
Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Met	Glu	Glu	Leu	Gly	Met	Ala
		115					120					125			
Pro	Ala	Leu	Gln	Pro	Thr	Gln	Gly	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala
		130				135					140				
Phe	Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu	Gln	Ser
145					150					155					160
Phe	Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln	Pro	
				165					170					175	

<210> 144  
<211> 174  
<212> PRT  
<213> Homo sapiens

<400> 144

Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys  
1 5 10 15

Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln  
20 25 30

Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val  
35 40 45

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys  
50 55 60

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser  
65 70 75 80

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser  
85 90 95

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp  
100 105 110

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro  
115 120 125

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe  
130 135 140

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe  
145 150 155 160

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170

<210> 145  
<211> 176  
<212> PRT  
<213> Homo sapiens

<400> 145

Met Val Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu  
1 5 10 15

Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala  
20 25 30

Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu  
35 40 45

Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser  
50 55 60

Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu  
65 70 75 80

His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly  
85 90 95

Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val  
100 105 110

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met  
115 120 125

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser  
130 135 140

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln  
145 150 155 160

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 146

<211> 176

<212> PRT

<213> Homo sapiens

<400> 146

Met Val Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu  
1 5 10 15

Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala  
20 25 30

Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu  
35 40 45

Leu Val Leu Leu Gly His Thr Leu Gly Ile Pro Trp Ala Pro Leu Ser  
50 55 60

Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu

65					70					75				80
His	Ser	Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu Gly
				85					90					95
Ile	Ser	Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp	Thr	Leu	Gln	Leu	Asp Val
			100					105					110	
Ala	Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Met	Glu	Glu	Leu	Gly Met
		115					120					125		
Ala	Pro	Ala	Leu	Gln	Pro	Thr	Gln	Gly	Ala	Met	Pro	Ala	Phe	Ala Ser
	130					135					140			
Ala	Phe	Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu Gln
145					150					155				160
Ser	Phe	Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln Pro
				165					170					175
<210> 147														
<211> 175														
<212> PRT														
<213> Homo sapiens														
<400> 147														
Met	Thr	Pro	Leu	Gly	Pro	Ala	Ser	Ser	Leu	Pro	Gln	Ser	Phe	Leu Leu
1				5					10					15
Lys	Cys	Leu	Glu	Gln	Val	Arg	Lys	Ile	Gln	Gly	Asp	Gly	Ala	Ala Leu
			20					25					30	
Gln	Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu Leu
		35					40					45		
Val	Leu	Leu	Gly	His	Thr	Leu	Gly	Ile	Pro	Trp	Ala	Pro	Leu	Ser Ser
	50					55					60			
Cys	Pro	Ser	Gln	Ala	Leu	Gln	Leu	Ala	Gly	Cys	Leu	Ser	Gln	Leu His
65					70					75				80
Ser	Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu	Gly Ile
				85					90					95
Ser	Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp	Thr	Leu	Gln	Leu	Asp	Val Ala
			100					105					110	
Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Met	Glu	Glu	Leu	Gly	Met Ala
		115					120					125		



Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 148  
<211> 176  
<212> PRT  
<213> Homo sapiens

<400> 148

Met Val Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu  
1 5 10 15

Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala  
20 25 30

Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu  
35 40 45

Leu Val Leu Leu Gly Ser Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser  
50 55 60

Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu  
65 70 75 80

His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly  
85 90 95

Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val  
100 105 110

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met  
115 120 125

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser  
130 135 140

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln  
145 150 155 160

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 149  
<211> 176  
<212> PRT  
<213> Homo sapiens

<400> 149

Met Gln Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu  
1 5 10 15

Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala  
20 25 30

Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu  
35 40 45

Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser  
50 55 60

Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu  
65 70 75 80

His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly  
85 90 95

Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val  
100 105 110

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met  
115 120 125

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser  
130 135 140

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln  
145 150 155 160

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 150  
<211> 181  
<212> PRT  
<213> Homo sapiens

<400> 150

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu

	20		25		30												
Gln	Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu	Leu		
		35					40					45					
Val	Leu	Leu	Gly	His	Ser	Leu	Gly	Ile	Pro	Trp	Ala	Pro	Leu	Ser	Ser		
	50					55					60						
Cys	Pro	Ser	Gln	Ala	Leu	Gln	Leu	Ala	Gly	Cys	Leu	Ser	Gln	Leu	His		
65					70					75					80		
Ser	Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu	Gly	Ile		
				85					90					95			
Ser	Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp	Thr	Leu	Gln	Leu	Asp	Val	Ala		
			100					105					110				
Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Met	Glu	Glu	Leu	Gly	Met	Ala		
		115					120						125				
Pro	Ala	Leu	Gln	Pro	Thr	Gln	Gly	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala		
	130					135					140						
Phe	Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu	Gln	Ser		
145					150					155					160		
Phe	Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln	Pro	Thr		
				165					170					175			
Gln	Gly	Ala	Met	Pro													
			180														
<210>	151																
<211>	175																
<212>	PRT																
<213>	Homo sapiens																
<400>	151																
Met	Thr	Pro	Leu	Gly	Pro	Ala	Ser	Ser	Leu	Pro	Gln	Ser	Phe	Leu	Leu		
1				5					10					15			
Lys	Cys	Leu	Glu	Gln	Val	Arg	Lys	Ile	Gln	Gly	Asp	Gly	Ala	Ala	Leu		
			20					25					30				
Gln	Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu	Leu		
		35					40					45					
Val	Leu	Leu	Gly	Ser	Ser	Leu	Gly	Ile	Pro	Trp	Ala	Pro	Leu	Ser	Ser		
	50					55					60						

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
100 105 110

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
115 120 125

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 152  
<211> 177  
<212> PRT  
<213> Homo sapiens  
  
<400> 152

Met Ala Ile Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe  
1 5 10 15

Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala  
20 25 30

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu  
35 40 45

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu  
50 55 60

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln  
65 70 75 80

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu  
85 90 95

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp  
100 105 110

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly  
115 120 125

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala  
130 135 140

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu  
145 150 155 160

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln  
165 170 175

Pro

<210> 153  
<211> 179  
<212> PRT  
<213> Homo sapiens

<400> 153

Met Gly Val Thr Glu Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln  
1 5 10 15

Ser Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp  
20 25 30

Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His  
35 40 45

Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala  
50 55 60

Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu  
65 70 75 80

Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala  
85 90 95

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln  
100 105 110

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu  
115 120 125

Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala  
130 135 140

Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser  
145 150 155 160

His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu  
165 170 175

Ala Gln Pro

<210> 154  
<211> 177  
<212> PRT  
<213> Homo sapiens

<400> 154

Met Ala Pro Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe  
1 5 10 15

Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala  
20 25 30

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu  
35 40 45

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu  
50 55 60

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln  
65 70 75 80

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu  
85 90 95

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp  
100 105 110

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly  
115 120 125

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala  
130 135 140

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu  
145 150 155 160

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln  
165 170 175

Pro

<210> 155  
<211> 178  
<212> PRT  
<213> Homo sapiens

<400> 155

Met Thr Pro Thr Gln Gly Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser  
1 5 10 15

Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly  
20 25 30

Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro  
35 40 45

Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro  
50 55 60

Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser  
65 70 75 80

Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu  
85 90 95

Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu  
100 105 110

Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu  
115 120 125

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe  
130 135 140

Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His  
145 150 155 160

Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala  
165 170 175

Gln Pro

<210> 156  
<211> 175  
<212> PRT  
<213> Homo sapiens

<400> 156

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
35 40 45

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
50 55 60

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
100 105 110

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
115 120 125

Pro Ala Thr Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 157

<211> 175

<212> PRT

<213> Homo sapiens

<400> 157

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
35 40 45



Val Leu Leu Gly His Ser Leu Gly Ile Pro Phe Thr Pro Leu Ser Ser  
50 55 60

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
100 105 110

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
115 120 125

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 158

<211> 175

<212> PRT

<213> Homo sapiens

<400> 158

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
35 40 45

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
50 55 60

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala

	100		105		110										
Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Met	Glu	Glu	Leu	Gly	Met	Ala
		115					120					125			
Pro	Ala	Leu	Gln	Pro	Thr	Gln	Thr	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala
	130					135					140				
Phe	Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu	Gln	Ser
145					150					155					160
Phe	Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln	Pro	
				165					170					175	
<210> 159															
<211> 192															
<212> PRT															
<213> Homo sapiens															
<400> 159															
Met	Phe	Pro	Thr	Ile	Pro	Leu	Ser	Arg	Leu	Phe	Asp	Asn	Ala	Met	Leu
1				5					10					15	
Arg	Ala	His	Arg	Leu	His	Gln	Leu	Ala	Phe	Asp	Thr	Tyr	Gln	Glu	Phe
			20					25					30		
Glu	Glu	Ala	Tyr	Ile	Pro	Lys	Glu	Gln	Lys	Tyr	Ser	Phe	Leu	Gln	Asn
		35					40					45			
Pro	Gln	Thr	Ser	Leu	Cys	Phe	Ser	Glu	Ser	Ile	Pro	Thr	Pro	Ser	Asn
	50					55					60				
Arg	Glu	Glu	Thr	Gln	Gln	Lys	Ser	Asn	Leu	Glu	Leu	Leu	Arg	Ile	Ser
65					70					75					80
Leu	Leu	Leu	Ile	Gln	Ser	Trp	Leu	Glu	Pro	Val	Gln	Phe	Leu	Arg	Ser
				85					90					95	
Val	Phe	Ala	Asn	Ser	Leu	Val	Tyr	Gly	Ala	Ser	Asp	Ser	Asn	Val	Tyr
			100					105					110		
Asp	Leu	Leu	Lys	Asp	Leu	Glu	Glu	Gly	Ile	Gln	Thr	Leu	Met	Gly	Arg
		115					120					125			
Leu	Glu	Asp	Gly	Ser	Pro	Arg	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
	130					135					140				
Ser	Lys	Phe	Asp	Thr	Asn	Ser	His	Asn	Asp	Asp	Ala	Leu	Leu	Lys	Asn
145					150				155						160

Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr  
165 170 175

Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
180 185 190

<210> 160

<211> 191

<212> PRT

<213> Homo sapiens

<400> 160

Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg  
1 5 10 15

Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu  
20 25 30

Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro  
35 40 45

Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg  
50 55 60

Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu  
65 70 75 80

Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val  
85 90 95

Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp  
100 105 110

Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu  
115 120 125

Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser  
130 135 140

Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr  
145 150 155 160

Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe  
165 170 175

Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
180 185 190

<210> 161  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 161

Leu	Glu	Asp	Gly	Ser	Pro	Thr	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 162  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 162

Leu	Glu	Asp	Gly	Ser	Pro	Thr	Thr	Ala	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 163  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 163

Leu	Glu	Asp	Gly	Ser	Pro	Thr	Ala	Thr	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 164  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 164

Leu	Glu	Asp	Gly	Ser	Pro	Thr	Gln	Gly	Ala	Met	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 165  
<211> 17  
<212> PRT

<213> Homo sapiens

<400> 165

Leu Glu Asp Gly Ser Pro Thr Gln Gly Ala Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 166

<211> 17

<212> PRT

<213> Homo sapiens

<400> 166

Leu Glu Asp Gly Ser Pro Thr Gln Gly Gln Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 167

<211> 17

<212> PRT

<213> Homo sapiens

<400> 167

Leu Glu Asp Gly Ser Pro Thr Thr Leu Tyr Val Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 168

<211> 17

<212> PRT

<213> Homo sapiens

<400> 168

Leu Glu Asp Gly Ser Pro Thr Ile Asn Thr Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 169

<211> 17

<212> PRT

<213> Homo sapiens

<400> 169

Leu Glu Asp Gly Ser Pro Thr Thr Val Ser Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 170  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 170

Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Pro Thr Gln Thr Tyr  
1 5 10 15

Ser

<210> 171  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 171

Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Pro Thr Gln Ala Tyr  
1 5 10 15

Ser

<210> 172  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 172

Leu Glu Asp Gly Ser Pro Thr Thr Leu Gln Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 173  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 173

Leu Glu Thr Glu Thr Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 174  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 174

Leu	Val	Thr	Glu	Thr	Pro	Arg	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 175  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 175

Leu	Glu	Thr	Gln	Ser	Pro	Arg	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 176  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 176

Leu	Val	Thr	Gln	Ser	Pro	Arg	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 177  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 177

Leu	Val	Thr	Glu	Thr	Pro	Ala	Thr	Gly	Gln	Ile	Phe	Lys	Gln	Thr	Tyr
1				5					10					15	

Ser

<210> 178  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 178

Leu Glu Asp Gly Ser Pro Thr Gln Gly Ala Met Pro Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 179  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 179

Leu Glu Asp Gly Ser Pro Thr Thr Thr Gln Ile Phe Lys Gln Thr Tyr  
1 5 10 15

Ser

<210> 180  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 180

Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 181  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 181

Met Thr Pro Leu Gly Pro Ala  
1 5

<210> 182  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 182

Met Val Thr Pro Leu Gly Pro Ala



1 5

<210> 183  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 183

Met Gln Thr Pro Leu Gly Pro Ala  
1 5

<210> 184  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 184

Met Ala Thr Pro Leu Gly Pro Ala  
1 5

<210> 185  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 185

Met Pro Thr Gln Gly Ala Met Pro Leu Gly Pro Ala  
1 5 10

<210> 186  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 186

Met Val Gln Thr Pro Leu Gly Pro Ala  
1 5

<210> 187  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 187

Met Gln Ser Thr Pro Leu Gly Pro Ala  
1 5

<210> 188  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 188

Met Gly Gln Thr Pro Leu Gly Pro Ala  
1 5

<210> 189  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 189

Met Ala Pro Thr Ser Ser Ser Pro Leu Gly Pro Ala  
1 5 10

<210> 190  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 190

Met Thr Pro Leu Gly Pro  
1 5

<210> 191  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 191

Leu Gly His Ser Leu Gly Ile  
1 5

<210> 192  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 192

Pro Ala Leu Gln Pro Thr  
1 5

<210> 193  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 193

Arg His Leu Ala Gln Pro  
1 5

<210> 194  
<211> 177  
<212> PRT  
<213> Homo sapiens

<400> 194

Met Ile Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe  
1 5 10 15

Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala  
20 25 30

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu  
35 40 45

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu  
50 55 60

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln  
65 70 75 80

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu  
85 90 95

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp  
100 105 110

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly  
115 120 125

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala  
130 135 140

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu  
145 150 155 160

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln  
165 170 175

Pro

<210> 195

<211> 175

<212> PRT

<213> Homo sapiens

<400> 195

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
35 40 45

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
50 55 60

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Tyr Ala  
100 105 110

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
115 120 125

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 196  
<211> 193  
<212> PRT  
<213> Homo sapiens

<400> 196

Met Val Thr Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met  
1 5 10 15

Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu  
20 25 30

Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln  
35 40 45

Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser  
50 55 60

Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile  
65 70 75 80

Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg  
85 90 95

Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val  
100 105 110

Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly  
115 120 125

Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr  
130 135 140

Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys  
145 150 155 160

Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu  
165 170 175

Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly  
180 185 190

Phe

<210> 197

<211> 192

<212> PRT

<213> Homo sapiens

<400> 197

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu  
1 5 10 15

Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe  
20 25 30

Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn  
35 40 45

Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn  
50 55 60

Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser  
65 70 75 80

Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser  
85 90 95

Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr  
100 105 110

Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg  
115 120 125

Leu Glu Asp Gly Ser Pro Thr Gln Gly Ala Met Pro Lys Gln Thr Tyr  
130 135 140

Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn  
145 150 155 160

Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr  
165 170 175

Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
180 185 190

<210> 198

<211> 192

<212> PRT

<213> Homo sapiens

<400> 198

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu  
1 5 10 15

Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe  
20 25 30

Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn  
35 40 45

Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn  
50 55 60

Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser  
65 70 75 80

Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser  
85 90 95

Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr  
100 105 110

Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg  
115 120 125

Leu Glu Asp Gly Ser Pro Thr Thr Thr Gln Ile Phe Lys Gln Thr Tyr

130                      135                      140  
 Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn  
 145                      150                      155                      160  
 Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr  
                          165                      170                      175  
 Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
                          180                      185                      190  
 <210> 199  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens  
 <400> 199  
 Met Ala Pro Thr Ser Ser Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp  
 1                      5                      10                      15  
 Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr  
                          20                      25                      30  
 Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser  
                          35                      40                      45  
 Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro  
                          50                      55                      60  
 Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu  
 65                      70                      75                      80  
 Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln  
                          85                      90                      95  
 Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp  
                          100                      105                      110  
 Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr  
                          115                      120                      125  
 Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe  
                          130                      135                      140  
 Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala  
 145                      150                      155                      160  
 Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp  
                          165                      170                      175

Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly  
180 185 190

Ser Cys Gly Phe  
195

<210> 200  
<211> 192  
<212> PRT  
<213> Homo sapiens

<400> 200

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu  
1 5 10 15

Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe  
20 25 30

Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn  
35 40 45

Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn  
50 55 60

Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser  
65 70 75 80

Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser  
85 90 95

Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr  
100 105 110

Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg  
115 120 125

Leu Glu Asp Gly Ser Pro Asn Thr Gly Gln Ile Phe Lys Gln Thr Tyr  
130 135 140

Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn  
145 150 155 160

Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr  
165 170 175

Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
180 185 190



<210> 201  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 201

Pro Thr Gln Gly Ala Met Pro  
1 5

<210> 202  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 202

Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 203  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 203

Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 204  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 204

Cys Val Ile Gln Glu Val Gly Met Glu Glu Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 205  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 205

Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Phe Ile Leu  
20

<210> 206  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 206

Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 207  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 207

Cys Val Met Gln Glu Val Gly Val Ile Glu Ser Pro Leu Met Tyr Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 208  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 208

Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 209  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 209

Cys Met Met Gln Glu Val Gly Val Glu Asp Thr Pro Leu Met Asn Val  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 210  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 210

Cys Val Thr Gln Glu Val Gly Val Glu Glu Ile Ala Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 211  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 211

Cys Val Met Gln Glu Val Trp Val Gly Gly Thr Pro Leu Met Asn Glu  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 212  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 212

Cys Val Met Gln Glu Glu Arg Val Gly Glu Thr Pro Leu Met Asn Ala  
1 5 10 15

Asp Ser Ile Leu  
20

<210> 213  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 213

Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys  
1 5 10